

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L2	3267	(pore glass) NEAR10 (solid phase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/16 13:54
L3	29131	catechol	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/16 13:54
L4	270	L3 and L2	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/16 13:54
L5	211988	\$nucleotide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/16 13:54
L6	226382	nucleic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/16 13:54
L7	260	L4 and L5 and L6	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/16 13:54
L8	1	L7 and "I9"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/16 13:54
S1	0	"4415732" "4458066" "4725677" "5047524" "6090934" "6590092"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:33

## EAST Search History

S2	14	((("4415732") or ("4458066") or ("4725677") or ("5047524") or ("6090934") or ("6590092"))).PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/09/02 17:40
S3	3255	(pore glass) NEAR10 (solid phase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:43
S4	606	(pore glass) NEAR5 (solid phase)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:38
S5	29063	catechol	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:39
S6	264	S5 and S3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:39
S7	211164	\$nucleotide	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:39
S8	225422	nucleic	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:40
S9	254	S6 and S7 and S8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:42

## EAST Search History

S10	934486	base and acid	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:42
S11	1	S9 and "I9"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:40
S12	926512	(solid).clm. or (solid).ti. or (solid). ab.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:42
S13	52	S12 and S9	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:42
S14	39840	(solid phase).clm. or (solid phase). ab. or (solid phase).ti.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:43
S15	114	S14 and S5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:44
S16	10709	pore glass	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:45
S17	12	S15 and S16	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 16:45
S18	668	"536/1.11".CCLS.	US-PGPUB; USPAT	NEAR	ON	2007/09/03 16:46

## EAST Search History

S19	1580	"536/25.3".CCLS.	US-PGPUB; USPAT	NEAR	ON	2007/09/03 16:47
S20	17	S19 and S5	US-PGPUB; USPAT	NEAR	ON	2007/09/03 16:50
S21	1524	S7 and S19	US-PGPUB; USPAT	NEAR	ON	2007/09/03 16:50
S22	19	((NAM) near2 (NGO)).INV.	US-PGPUB; USPAT	NEAR	ON	2007/09/03 17:19
S23	3	((NAM) near2 (NGO)).INV.	EPO; JPO; DERWENT	NEAR	ON	2007/09/03 17:18
S24	3	((LAURENT) near2 (JAQUINOD)). INV.	US-PGPUB; USPAT	NEAR	ON	2007/09/03 17:38
S25	0	((LAURENT) near2 (JAQUINOD)). INV.	EPO; JPO; DERWENT	NEAR	ON	2007/09/03 17:19
S26	416	((HONG) near2 (WANG)).INV.	US-PGPUB; USPAT	NEAR	ON	2007/09/03 17:19
S27	103	((HONG) near2 (WANG)).INV.	EPO; JPO; DERWENT	NEAR	ON	2007/09/03 17:19
S28	3	(S26 or S27) and S14	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 17:20
S29	71	(S26 or S27) and S10	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 17:20
S30	44	(S26 or S27) and S8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	NEAR	ON	2007/09/03 17:27
S31	2	(ctgen).as.	US-PGPUB; USPAT	NEAR	ON	2007/09/03 17:38

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title:"electron withdrawing" AND (solid AND phase AND

Search

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Searched for:: :All of the words:title:"electron withdrawing" AND (solid AND phase AND synthesis)




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



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1. Novel epimerization of aromatic C-nucleosides with electron-withdrawing substituents with trifluoroacetic...  
**Jiang, Y.L. / Stivers, J.T. , *Tetrahedron Letters*, 44 (21), p.4051-4055, May 2003**  
...yields in the range 54-78%. **Synthesis** of the 3'-phosphoramidite of...4-difluorophenyl C -nucleoside suitable for **solid-phase** DNA **synthesis** is described. epimerization...DNA. 12 Although the efficient **synthesis** of the difluorotoluenyl C -nucleoside...  
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2. Synthesis of tetrahydrobenzoxazepine acetals with electron-withdrawing groups on the nitrogen atom. Novel scaffolds...  
**Diaz-Gavilan, M. / Rodriguez-Serrano, F. / Gomez-Vidal, J.A. / Marchal, J.A. / Aranega, A. / Gallo, M.A. / Espinosa, A. / Campos, J.M. , *Tetrahedron*, 60 (50), p.11547-11557, Dec 2004**  
...when DIAD was used. 23 2.2 **Synthesis** of ( RS )- N -trifluoroacetyl-2-methoxy-2...promising intermediates in the **synthesis** of new anticancer agents. 9c is appropriate for the **synthesis** of an array of target structures...1 equiv) was added as a **solid** in one portion, followed...  
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3. Interface formation between Ca and poly(p-phenylene vinylene) derivatives having electron-withdrawing 1,3,4-oxadiazole...  
**Lee, D.W. / Kim, K. / Jin, J.-I. / Park, Y. , *Synthetic Metals*, 143 (2), p.181-185, Jun 2004**  
...interest for their potential applications as **solid**-state LEDs of large and flexible emitting...polymer [17] in order to mitigate the **phase** separation or crystallization of additives...remove the residual solvent. Details of the **synthesis** of P-1 and P-2 can be found elsewhere...  
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Re  
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cat  
ph  
sili  
Or  
Al  
F  
Aut  
Sol  
syn  
plat  
ww

4. Synthesis of perhaloaromatic diethyl methylphosphonates containing  $\alpha$ -electron-withdrawing group  
**Artamkina, G.A. / Tarasenko, E.A. / Lukashev, N.V. / Beletskaya, I.P. ,**  
*Tetrahedron Letters*, 39 (8), p.901-904, Feb 1998  
...TETRAHEDRON LETTERS **Synthesis** of perhaloaromatic diethyl...November 1997  
Abstract: The **synthesis** of new perhaloaryli(hetaryl)...reagents for organic **synthesis**.  
These compounds can...reaction is carried out in **solid**/liquid system using 2...Et<sub>3</sub>BnN+Cr  
(TEBA) as a **phase** transfer agent (entries...  
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5. Monomer containing electron-withdrawing group and electron- donative group, and copolymer and proton-conductive membrane comprising same  
**Goto, Kohei / Takahashi, Masayuki / Yamakawa, Yoshitaka / Higami, Makoto**  
(**JSR Corporation**), *EUROPEAN PATENT*, Oct 2002  
patno:EP1245554  
...Patent 5,403,675 proposes a **solid** polymer electrolyte  
comprising...fluorobenzophenone obtained in **Synthesis** Example 1; Fig. 2 is the  
infrared...the invention) obtained in **Synthesis** Example 1; and Fig. 3 is (1)H-N...the  
invention) obtained in **Synthesis** Example 1.) ( DETAILED DESCRIPTION...  
**Full text available at patent office. For more in-depth searching go to**  LexisNexis  
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6. Dimethyl ether methylation of alpha carbon adjacent an electron withdrawing group  
**Waller, Francis Joseph / Parris, Gene Everad (AIR PRODUCTS AND CHEMICALS, INC.),**  
*EUROPEAN PATENT*, Oct 2001  
patno:EP1142854  
...formaldehyde under vapour **phase** conditions in the presence...12 carbon atoms and a  
**solid** catalyst. This **solid** acid catalyst is described...acids and esters by vapor **phase**  
reaction at 200 to 500...catalyst in the catalytic **synthesis** of methacrylates comprised...  
**Full text available at patent office. For more in-depth searching go to**  LexisNexis  
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7. A mild one-pot deamination of aromatic amines bearing electron-withdrawing groups.  
Calcium hypophosphite as a...  
**Mitsunashi, H. / Kawakami, T. / Suzuki, H. ,** *Tetrahedron Letters*, 41 (29), p.5567-  
5569, Jul 2000  
...constitutes an important process in organic **synthesis**. For primary aromatic amines,  
they are...diluted with water (30 ml) and the organic **phase** was extracted with ether (30  
ml x 3...SO<sub>4</sub>, and evaporated to leave a yellow **solid**, which was purified by  
chromatography...  
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8. Sulfonyl chloride as a disposable electron withdrawing substituent in halex fluorinations  
**Kageyama, H. / Suzuki, H. / Kimura, Y. ,** *Journal of Fluorine Chemistry*, 101 (1),  
p.85-89, Jan 2000  
...was freeze-dried to afford a **solid** (46.6 g), which was dissolved...dichloromethane.  
The aqueous **phase** was concentrated in vacuo to...dichloromethane (1 l). The aqueous  
**phase** was concentrated in vacuo to get a **solid**, which was dissolved in methanol...  
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9. Regioselectivity of the ring opening of propene oxides bearing electron-withdrawing substituents at the methyl group...  
**Skupin, R. / Haufe, G.**, *Journal of Fluorine Chemistry*, 92 (2), p.157-165, Nov 1998  
 ...for the preparative **synthesis** of monofluorinated...methane as mobile **phase**).  
 3.1.2. General procedure for the **synthesis** of the nitro-substituted...Fluorine~F addition of **solid** sodium hydroxide...dichloromethane as mobile **phase**). The yields obtained...  
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10. PROCESS OF REMOVING IONS FROM SOLUTIONS USING A COMPLEX WITH SULFUR-CONTAINING HYDROCARBONS ALSO CONTAINING ELECTRON WITHDRAWING GROUPS BONDED TO A SOLID HYDROPHILIC MATRIX  
**BRUENING, Ronald L. / TARBET, Bryon J. / IZATT, Reed M. / BRADSHAW, Jerald S. (BRIGHAM YOUNG UNIVERSITY)**, *PATENT COOPERATION TREATY APPLICATION*, Dec 1993  
 patno:WO9325306  
 ...appropriate inorganic **solid** supports form the...compounds, methods of **synthesis** and properties are...spacer grouping to **solid** supports as shown...from the source **phase** is solution containing...from the receiving **phase** is readily accomplished...to a hydrophilic **solid** support without electron...  
**Full text available at patent office. For more in-depth searching go to**  **LexisNexis**  
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11. Process of removing ions from solutions using a complex with sulfur-containing hydrocarbons also containing electron withdrawing groups bonded to a solid hydrophilic matrix  
**Bruening, Ronald L. / Tarbet, Bryon J. / Izatt, Reed M. / Bradshaw, Jerald S. (Brigham Young University)**, *UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT*, Jun 1994  
 patno:US5318846  
 ...containing ligand bound to the **solid** support or forms a stronger...group containing ligand bound to **solid** support than does the desired...recovered from the receiving **phase** by known procedures. Illustrative...containing ligands bound to **solid** supports are Pd(II), Ru(III)...  
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12. New NLO Stilbene Derivatives Bearing Phosphonate Ester Electron-Withdrawing Groups  
**Belfield, K.D. / Chinna, C. / Schafer, K.J.**, *Tetrahedron Letters*, 38 (35), p.6131-6134, Sep 1997  
 ...48219 Abstract: The **synthesis** and characterization...electro-optic effect. A **phase** grating is then created...the straightforward **synthesis** and characterization...resulting in a bright yellow **solid** (44% yield). IR NMR...vis:  $\lambda_{max} = 340 \text{ nm}$ . **Synthesis** of 4-diethyl 4'-N,N...  
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13. PROCESS OF REMOVING IONS FROM SOLUTIONS USING A COMPLEX WITH SULFUR-CONTAINING HYDROCARBONS ALSO CONTAINING ELECTRON WITHDRAWING GROUPS BONDED TO A SOLID HYDROPHILIC MATRIX  
**BRUENING, Ronald L. / TARBET, Bryon J. / IZATT, Reed M. / BRADSHAW, Jerald S. (BRIGHAM YOUNG UNIVERSITY)**, *EUROPEAN PATENT*, Mar 1995  
 patno:EP644799  
 ...appropriate inorganic **solid** supports form the...compositions, methods of **synthesis**


and properties are...spacer grouping to **solid** supports as shown...from the source **phase** solution containing...from the receiving **phase** is readily accomplished...to a hydrophilic **solid** support without electron...


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-  **14.** Monomer containing electron-withdrawing group and electron-donative group, and copolymer and proton-conductive membrane comprising same

**Goto, Kohei / Takahashi, Masayuki / Yamakawa, Yoshitaka / Higami, Makoto (JSR Corporation), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT**, Sep 2004  
patno:US6794480


A monomer containing an electron-withdrawing group and an electron-donative group which can be easily controlled in the upper limit of the amount of a sulfonic acid, which impairs the mechanical properties of a copolymer, and can provide a sulfonated ...


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-  **15.** Dimethyl ether for methyl group attachment on a carbon adjacent to an electron withdrawing group

**Waller, Francis Joseph / Parris, Gene Everad (Air Products and Chemicals, Inc.), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT**, Dec 2001  
patno:US6329549


...that a single vapor **phase** feed was passed through...and snugly into a **solid** stainless steel block...place in the gas **phase**. The following parameters...gamma-Al<sub>2</sub>O<sub>3</sub> in the **synthesis** of methyl methacrylate...metal elements on the **synthesis** of methyl methacrylate...strong gamma-alumina **phase** was detected by XRD...

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-  **16.** Monomer containing electron-withdrawing group and electron-donative group, and copolymer and proton-conductive membrane comprising same

**Goto, Kohei / Takahashi, Masayuki / Yamakawa, Yoshitaka / Higami, Makoto (JSR CORPORATION), UNITED STATES PATENT AND TRADEMARK OFFICE PRE-GRANT PUBLICATION**, Nov 2002  
patno:US20020177656

A monomer containing an electron-withdrawing group and an electron-donative group which can be easily controlled in the upper limit of the amount of a sulfonic acid, which impairs the mechanical properties of a copolymer, and can provide a sulfonated ...


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-  **17.** Polymerization catalysts containing electron-withdrawing amide ligands

**Watkin, John G. / Click, Damon R. (The Regents of the University of California), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT**, Jan 2002  
patno:US6335303

...used as received: Lancaster **Synthesis**—hexafluorobenzene, 3,5-bis...Digilab FTS-40 spectrometer. **Solid**-state spectra were taken as...removed in vacuo to leave a pink **solid**. 100 ml of hexane was added to the **solid** and the mass broken up with...


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-  **18.** Irreversible cysteine protease inhibitors containing vinyl groups conjugated to electron withdrawing groups




**Palmer, James T. / Rasnick, David / Klaus, Jeffrey Lee (Axys Pharmaceuticals, Inc.), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Sep 2001**  
patno:US6287840


...shown below. (Example 4)(**Synthesis** of a Cysteine Protease...with Methyl terminus)  
**Synthesis** of (S)-(E)-5-(4-morpholinecarbonyl-phenylalanyl...giving 1.90 g of a white **solid**. This material was dissolved...product as an amorphous **solid**. The melting point of...562.2362. (Example 8)(**Synthesis** of Additional Cysteine...

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-  **19. POLYMERIZATION CATALYSTS CONTAINING ELECTRON-WITHDRAWING AMIDE LIGANDS**  
**WATKIN, John G. / CLICK, Damon R. (THE REGENTS OF THE UNIVERSITY OF CALIFORNIA), PATENT COOPERATION TREATY APPLICATION, Oct 1998**  
patno:WO9845039

...or 0 and z is 2-y, and as a second component alurnoxane. The disclosed effect of this group of catalysts is the production of **solid** stereoregular polyolefins having a molecular weight well in excess of 100,000. In WO 96/27439 there are disclosed catalyst systems...

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-  **20. Cofeeds of electron donating and electron withdrawing reagents to control MW in olefin polymerization using supported metallocene catalyst**  
**Cheruvu, Subrahmanyam / Lo, Frederick Y. / Ong, Shih-May Christine (Mobil Oil Coporation), UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT, Mar 1999**  
patno:US5883203

...embodiments herein undertaken in a fluid bed gas **phase** process, the activated catalyst is fluidized...efficacious low pressure fluid bed gas **phase** polymerizations. Much lower activity catalysts...process is undertaken in the fluid bed gas **phase**. For the production of ethylene copolymers...

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